We claim:

1.-7. (cancelled)

8. (new) A method for controlling overload of a data processing system, comprising:

monitoring a load of the data processing system, wherein parameters for a degree of utilization of resources of the data processing system are determined;

running an overload operation mode of the data processing system;

feeding the parameters into a fuzzy logic expert system, which comprises a fuzzy rule base having rules and associated fuzzy logic variables;

identifying important rules among said rule base in acordance with the parameters via the fuzzy logic expert system;

calculating values for the fuzzy logic variables, which are associated with the important rules; and

handling the overload based on the identified rules and the calculated values of the associated fuzzy logic variables.

9. (new) The method according to claim 8, further comprising:

running a normal operation mode of the data processing system.

10. (new) The method according to claim 9, further comprising:

monitoring the load of said data processing system;

determining parameters for said degree of utilization of resources of the data processing system in both the normal operation mode and the overload operation mode;

feeding the parameters into the fuzzy logic expert system;

determining additional application specific parameters, which refer to the degree of utilization of resources by applications running on the data processing system, in the overload operation mode; and

feeding the application specific parameters into the fuzzy logic expert system.

11. (new) The method according to claim 10, further comprising:

determining an overload level via said fuzzy logic expert system based on the parameters and/or the application specific parameters; and

using the overload level as criterion for switching between the normal operation mode and the overload operation mode.

12. (new) The method according to claim 8, wherein the monitoring of the load of said data processing system is performed according to a clock rate, which is higher in the overload operation mode than in the normal operation mode.

13. (new) The method according to claim 9, wherein the monitoring of the load of said data processing system is performed according to a clock rate, which is higher in the overload operation mode than in the normal operation mode.

14. (new) The method according to claim 10, wherein the monitoring of the load of said data processing system is performed according to a clock rate, which is higher in the overload operation mode than in the normal operation mode.

15. (new) The method according to claim 8, wherein the degree of utilization of at least one of the following resources is monitored: CPU load, memory utilization, I/O load.

16. (new) The method according to claim 9, wherein the degree of utilization of at least one of the following resources is monitored: CPU load, memory utilization, I/O load.

17. (new) The method according to claim 10, wherein the degree of utilization of at least one of the following resources is monitored: CPU load, memory utilization, I/O load.

18. (new) The method according to claim 11, wherein the degree of utilization of at least one of the following resources is monitored: CPU load, memory utilization, I/O load.

19. (new) The method according to claim 12, wherein the degree of utilization of at least one of the following resources is monitored: CPU load, memory utilization, I/O load.

20. (new) The method according to claim 8, wherein the method is performed by a data processing system.

21. (new) A method for controlling overload of a data processing system, comprising:

monitoring a load of the data processing system, wherein parameters for a degree of utilization of resources of the data processing system are determined;

feeding the parameters into a fuzzy logic expert system, which comprises a fuzzy rule base having rules and associated fuzzy logic variables;

identifying important rules among said rule base in accordance with the parameters via the fuzzy logic expert system;

calculating values for the fuzzy logic variables, which are associated with the important rules; and

handling the overload based on the identified rules and the calculated values of the associated fuzzy logic variables.

22. (new) The method according to claim 21, wherein the degree of utilization of at least one of the following resources is monitored: CPU load, memory utilization, I/O load.

23. (new) The method according to claim 21, wherein the method is performed by a data processing system.

24. (new) A data processing system, comprising a mechanism for performing a method for controlling overload, the method comprising:

monitoring a load of the data processing system, wherein parameters for a degree of utilization of resources of the data processing system are determined;

running an overload operation mode of the data processing system;

feeding the parameters into a fuzzy logic expert system, which comprises a fuzzy rule base having rules and associated fuzzy logic variables;

identifying important rules among said rule base in accordance with the parameters via the fuzzy logic expert system;

calculating values for the fuzzy logic variables, which are associated with the important rules; and

handling the overload based on the identified rules and the calculated values of the associated fuzzy logic variables.